Dual Rail LCD KVM Switches

KL1100 (LCD Console)
KL3116T • KL1508/KL1516
KL9108/KL9116 • KL3116 • KL1116

ALTUSEN Dual Rail LCD KVM Switches, LCD KVMP Switches, and TouchScreen KVMP Switch are rack mounted keyboard, video, mouse (KVM) consoles with LCD monitor, keyboard, and touchpad. They require only 1U of rack space, thus conserving valuable real estate in your data center. Most ALTUSEN Dual Rail LCD KVM Switches have an integrated 8 or 16 port KVM switch. Users can easily and conveniently control attached servers directly from the KVM switch console; it is not necessary to connect any extra keyboard, mouse, and monitor. Dual Rail LCD KVM Switches feature an independently retractable.

Dual Rail 17" or 19" LCD monitor and keyboard with built-in touchpad. The LCD display is built into the cover; the keyboard and touchpad are built into the base. Slide the LCD and keyboard modules out, flip the cover up and you are ready to work.   When finished, flip the cover down and slide the modules away. The LCD module and keyboard module slide separately – for example, you can see the video display while the keyboard and touchpad are conveniently tucked away.

ALTUSEN Dual Rail Touch Screen KVMP Switch is ideal for industrial environments such as factory production lines, laboratories, and sever rooms, or anywhere else an LCD KVM switch is required. Anyone working on a production line while wearing gloves knows the difficulty of trying to control on-screen testing programs with the use of a mouse. The KL3116T touchscreen is the easiest and most convenient way to solve problems with user interactive production line testing programs.

In addition to the smooth mechanism and streamlined design, ALTUSEN Dual Rail LCD KVM Switches offer a host of interfaces and functions to meet your individual needs. See the Comparison Talbe on page 24 for a list of the features of each Dual Rail model.

All-in-One Design

Dual Rail LCD KVM Switches offer a space-saving, streamlined approach to KVM switch technology by integrating an LCD monitor, keyboard, and touchpad in a Dual Rail housing. The Dual Rail housing is slightly less than 1U high for easy installation and manipulation in 1U of rack space.

Dual Rail Support

Dual Rail LCD KVM Switches feature an independently retractable LCD monitor and keyboard with a built-in touchpad. To maximize space in your data center, the keyboard "hides away" when not in use, while the thin profile LCD monitor reclines flush against the rack to enable continuous monitoring of computers.

Second Console Port

All Dual Rail LCD KVM Switches provide second console ports for connecting an extra KVM console. The second console can be added easily via the rear port, enabling two users to independently manage the computers on the KVM installation. The second console enables a user to control the KVM switch and servers from an external console. Or, connect a KVM extender or CN8000*KVM on the NET™ to the second console port to provide remote access to the Dual Rail LCD KVM Switch and the attached servers.

Extra Mouse Port

Dual Rail LCD KVM Switches have the added convenience of a mouse port for customers who want to use an external mouse.**

Port Selection via Pushbutton

The Dual Rail LCD KVM Switches provide three port selection methods to access computers on the installation including Hotkey, OSD and manual. Many models also have conveniently located station and port selectors with 7-segment LED display** to quickly switch to target computers.

Dedicated Invocation Keys

Dedicated Invocation Keys allow you to conveniently invoke Hotkey and OSD modes. They reduce the number of keystrokes necessary to access important features.

Console Lock

The semi-automatic lock/unlock design enables the keyboard module to remain securely locked away in position when sliding the LCD out. When finished, just flip the cover down and unlock the release catch, then slide the module away. This function makes control and operation more secure and convenient.

Icon Indicators

Each Dual Rail LCD KVM Switch has helpful labels and intuitive, color-coded icons which help users to operate the device more easily.

No Software Required**

The KL3116T is the first touchscreen LCD KVM switch of its kind that does not require additional software to be installed on computers.

*The CN8000 from ATEN is an ultra-compact Over IP Solution for remote access to computers and KVM installations.
**Not all models support this feature. Please see the comparison table for difference.

■ Dual Rail

■ Dedicated Invocation Keys

■ Second Console Port

■ Extra Mouse Port**   ■ Icon Indicators

Single Person Installation

The following illustrations demonstrate just how easy it is to install your Dual Rail LCD KVM Switch with the Easy Installation Rack Mount Kit.

1. Secure the side rails to the rack.

2. Slide the Dual Rail LCD KVM Switch onto the rails and secure it to the rack.

3. Open the Dual Rail LCD KVM Switch. Now you are ready to begin installing the servers.

Single Person Easy Installation (Optional)

ALTUSEN Dual Rail LCD KVM Switches allow you to choose from a host of optional rack mount kits to meet your needs, including the Single Person Easy Installation Rack Mount Kit, which streamlines the rack mounting process.

Normal rack mounting procedures call for at least two people to rack mount a KVM switch. The Single Person Easy Installation Rack Mount Kit enables one person to rack mount a Dual Rail LCD KVM Switch. In just a matter of minutes, your new Dual Rail LCD KVM Switch can go from the box to the rack.

Rack Mount Kits

For convenience and flexibility, four rack mount kits are available:

	Bracket Type	Depth (cm)
KL1100, KL3116T, KL3116, KL9108/KL9116 KL1508/KL1516, KL1116	Standard Installation – Short (Standard)	42.0—77.0
KL1100, KL3116T, KL3116, KL9108/KL9116 KL1508/KL1516 (17" LCD)	Standard Installation – Long (2X-010G)	68.0—105.0
	Easy Installation – Short (2X-011G)	57.0—70.0
	Easy Installation – Long (2X-012G)	68.0—105.0
KL1116	Standard Installation – Long (2X-010G)	68.0—105.0
	Easy Installation – Short (2X-011G)	54.0—70.0
	Easy Installation – Long (2X-012G)	68.0—105.0
KL1508/KL1516 (19" LCD)	Standard Installation – Long (2X-010G)	68.0—105.0
	Easy Installation – Short (2X-011G)	63.0—70.0
	Easy Installation – Long (2X-012G)	74.0—105.0

Standard Installation Rack Mount Kit

Short (Standard)

Long (Optional)

Easy Installation Rack Mount Kit

Short (Optional)

Long (Optional)

Application Diagram
Dual Rail LCD KVM Switch

■ KVM Signals (Cat 5e Cable)
■ LAN/Internet

Comparison Table
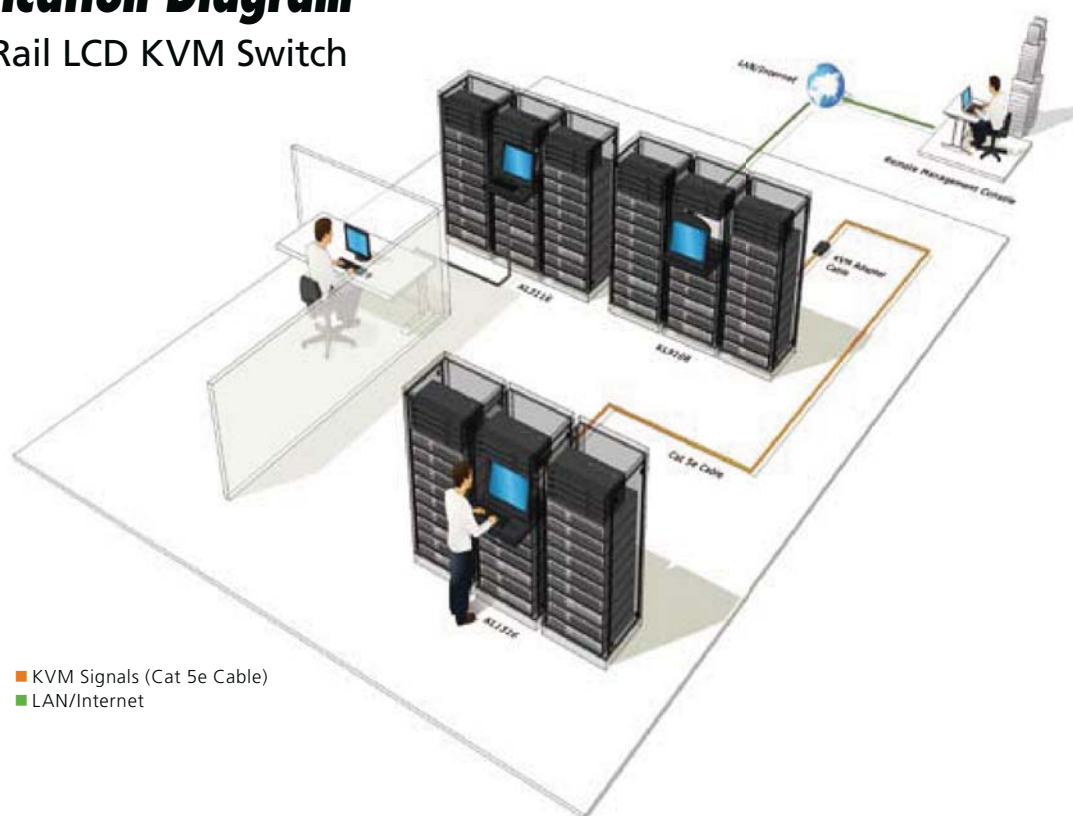
		LCD KVM Switch					LCD Console
		KL3116T	**KL3116**	**KL1116**	**KL9108/KL9116**	**KL1508/KL1516**	**KL1100**
Port		16	16	16	8/16	8/16	1
Expansion		512 Daisy-Chain	512 Daisy-Chain	512 Daisy-Chain	64/128 Cascade*	256/512 Daisy-Chain	
Computer	Connector	SPHD-15	SPHD-15	SPHD-15	SPHD-15	RJ-45	SPHD-15
	System	PS/2, USB, Sun***, Serial****		PS/2, USB**, Sun***, Serial****		PS/2, USB, Sun, Serial	PS/2, USB, Sun***, Serial****
External Console		SPHD-18 (PS/2, USB; HDB-15)	SPHD-15 (USB; HDB-15)	PS/2; HDB-15	PS/2; HDB-15	PS/2; HDB-15	PS/2, USB; HDB-15
Extra Mouse Port		● (USB)	● (PS/2)		● (PS/2)	● (PS/2)	● (USB)
LCD		17"	17"	17"	17"	17" / 19"	17" / 19"
Dedicated Invocation Keys		●	●	●	●	●	
Dual Rail		●	●	●	●	●	●
Console Lock		●	●	●	●	●	●
Switches	Port	●	●	●		●	
	Station	●	●			●	
Auto Scan		●	●	●	●	●	
Broadcast Support		●	●	●		●	
Multi-level Password Security		●	●	●	●	●	
Firmware Upgradeable		●	●	●	●	●	●
USB Peripheral Port		●	●				
KVM Over the NET™					●		
Touchscreen		●					
Single Person Installation		●	●	●	●	●	●

* Compatible KVM Switches: CS9134, CS9138, CS88A.
* * Custom KVM cables are available to allow PS/2 , and USB systems to exist on the same installation.
*** SUN to PS/2 converters are available to allow SUN systems to exist on the same installation.
**** Requires KA9140 Serial KVM Adapter Cable Cable.
 Depending on KVM Adapter Cable type

KL1100

Dual Rail LCD
PS/2-USB Console

• Super A-Grade TFT LCD Panel
• Zero Dead Pixel Guarantee *

Shared Access	2nd Console	Computers
2 Local Users	PS/2, USB	SPHD PS/2, USB

LCD Monitor	External Mouse	NEW OS Support
17" / 19"	USB	Vista

Features

• Integrated KVM console with 17" or 19" LCD monitor in a Dual Rail housing
• Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
• Dual Interface – supports PS/2 and USB keyboards and mice in the computer ports
• Extra console port – manage computers in the LCD KVM switch from an external console (monitor, PS/2 or USB keyboard, and PS/2 or USB mouse)
• Additional hot-pluggable USB mouse port on front panel
• Dual Rail – LCD monitor slides independently of the keyboard/touchpad
• LCD module rotates up to 120 degrees for a more comfortable viewing angle
• Console lock – enables the console drawer to remain securely locked away in position when not in use
• LCD power button helps save energy and prolong display's life
• Superior video quality – supports resolutions of up to 1280 x 1024 @75Hz, DDC2B (17" and 19" LCD)
• DDC emulation – video settings of each computer are automatically adjusted for optimal output to the monitor
• Compatible with all ATEN KVM switches and most KVM switches in the market
• Firmware upgradeable

*Please refer to www.aten.com for more details.

**Available with DC power at customer's request.

Specifications

Function			KL1100
Computer Connections			1
Console Selection			Hotkey
Connectors	External Console Ports	Keyboard	1 x PS/2 (F); 1 x USB (F)
		Video	1 x HDB-15 (F)
		Mouse	1 x PS/2 (F); 1 x USB (F)
	KVM Ports		1 x SPHD-15 (F)
	Power		1 x 3-prong AC Socket
	F/W Upgrade		1 x RJ-11
	External Mouse		1 x USB (F)
Switches			Reset, Power, F/W Upgrade, LCD Power, LCD Adjusment
LEDs			Power, Num Lock, Caps Lock, Scroll Lock
Emulation	Keyboard/Mouse		PS/2; USB
Video Resolution	17" LCD		1280 x 1024, DDC2B
	19" LCD		1280 x 1024, DDC2B
I/P Rating			100–240VAC; 50–60 Hz; 1A
Power Consumption	17" LCD		29.6W
	19" LCD		32.2W
Environment	Operating Temp.		0–40°C
	Storage Temp.		-20–60°C
	Humidity		0–80% RH, Non-condensing
Physical Properties	Housing		Metal
	Weight	17"	15.90 kg
		19"	17.40 kg
	Dimensions (L x W x H)	17"	61.40 x 48.20 x 4.40 cm(19"/1U)
		19"	66.50 x 48.20 x 4.40 cm(19"/1U)

Product specifications and appearance are subject to change without notice.

Setup

KL1100

External Console

KH1516

Cat 5e Cable
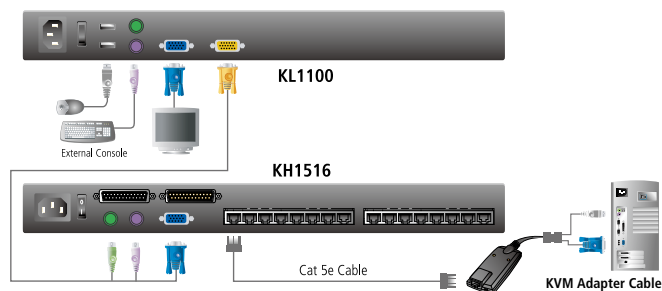
KVM Adapter Cable

See page 7 for available KVM Adapter Cables

■ Dual Rail
■ 17" or 19" LCD Option
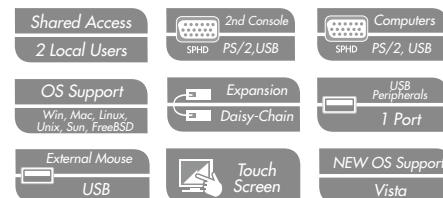■ Extra USB Mouse Port

■ Internal Power**
■ External Combo console support
■ Dual Interface - supports computers and KVM switches with PS/2 or USB Keyboards and mice

KL3116T

*16-Port
Dual Rail Touch
Screen KVMP™ Switch*

NEW

- Super A-Grade TFT LCD Panel
- Zero Dead Pixel Guarantee *

Shared Access / 2 Local Users	
2nd Console SPHD PS/2, USB	Computers SPHD PS/2, USB
OS Support / Win, Mac, Linux, Unix, Sun, FreeBSD	Expansion / Daisy-Chain	USB Peripherals / 1 Port
External Mouse / USB	Touch Screen	NEW OS Support / Vista

Features

- Integrated KVM console with 17" LCD monitor in Dual Rail housing
- Space saving technology – up to two consoles (sharing one bus) can control up to 16 computers
- Touchscreen offers convenient operation without extending the keyboard module or using a mouse
- Simple one-point and two-point touchscreen calibration including separate methods for calibrating the OSD (on-screen display) and attached computers with varying resolutions
- Dual Interface – supports computers and KVM switches with PS/2 or USB keyboards and mice
- USB peripheral support for attached computers**
- Conveniently located station and port selectors, each with two 7-segment LED displays to quickly switch to target computers
- Dual Rail housing is slightly less than 1 U with top and bottom clearance for smooth operation in 1U of rack space
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock –enables the console drawer to remain securely locked away in position when not in use
- Dedicated Hotkey mode and OSD invocation keys reduce the number of keystrokes and provide quick access to these functions
- Daisy-chain up to 31 additional KVM switches *** to control up to 512 computers
- Extra console port – manage computers fin the LCD KVM switch from an external console (monitor, USB or PS/2 keyboard and mouse)
- Supports external USB mouse
- Convenient computer selection via mouse-driven, intuitive OSD menus and hotkeys
- OSD tree structure makes finding and managing computers easy
- Dual slide – LCD monitor module slides independently of the keyboard / touchpad module
- Hot pluggable – add or remove computers without powering down the switch
- OSD port list automatically expands when new stations are added
- Auto Scan mode enables continuous monitoring of user-selected computers
- Broadcast support – commands from the keyboard can be broadcast to all available computers on the installation
- Two level password security –Administrator and up for four Users; only authorized users view and control the computers; separate profiles for each
- LCD power button helps save energy and prolong display's life
- DDC emulation – video settings of each computer are automatically adjusted for optimal output to the monitor
- Firmware upgradeable

* Please refer to www.aten.com for more details
** Supports USB peripherals for computers connected to the local station.
*** Compatible KVM switches: KH1508, KH1516, KH0116, CS1708A, CS1716A,ACS1208A,ACS1216A

Specifications

Function		KL3116T
Computer Connections	Direct	16
	Max.	512 (via Daisy-chain)
Port Selection		OSD, Hotkey, Pushbutton
Connectors	External Console Ports	1 x SPHD-18 (M)
	KVM Ports	16 x SPHD-15 (F)
	Daisy-Chain Ports	1 x DB-25 (M)
	F/W Upgrade	1 x RJ-11 (F)
	Power	1 x 3-prong AC Socket
	USB Peripheral Hub Port	1 x USB (F)
	External Mouse	1 x USB (F)
Switches		Reset, Port Selection, Station Selection, Power, F/W Upgrade, LCD Adjustment, LCD Power, KVM OSD
LEDs		On Line, Station ID, Port ID, Num Lock, Caps Lock, Scroll Lock, Power
Emulation	Keyboard / Mouse	PS/2; USB
Video Resolution		1280 x 1024@75Hz ; DDC2B
Scan Interval		1–255 Seconds
I/P Rating		100–240VAC, 50/60Hz; 1A
Power Consumption		120V / 27.5W; 230V / 28W
Environment	Operating Temp.	0–40 °C
	Storage Temp.	-20–60 °C
	Humidity	0–80% RH, Non-condensing
Physical Properties	Housing	Metal
	Weight	21 Kg
	Dimensions (L x W x H)	68.00 x 48.20 x 4.40 cm (19"/1U)

Product specifications and appearance are subject to change without notice.

Setup

External Console

KL3116T

USB

PS/2
PS/2
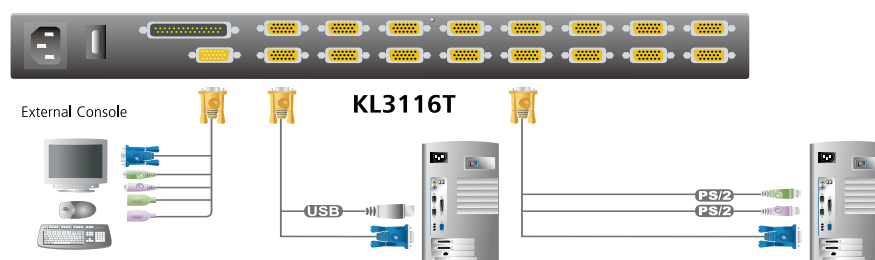
KL1508/KL1516

8/16-Port
Cat 5 High-Density
Dual Rail LCD KVM Switches

- Distance extension—up to 40 m via Cat 5e connection
- Multiplatform support
- 17" or 19" LCD option

- Super A-Grade TFT LCD Panel
- Zero Dead Pixel Guarantee *

Shared Access / 2 Local Users	2nd Console / PS/2	Computers / PS/2, USB, Sun, Serial
OS Support / Win, Mac, Linux, Unix, Sun, FreeBSD	Expansion / Daisy-Chain	LCD Monitor / 17" / 19"
External Mouse / PS/2	NEW OS Support / Vista	

Features

- Integrated KVM console with 17" or 19" LCD monitor in a Dual Rail housing
- A single console controls up to 8 (KL1508) or 16 (KL1516) computers
- KVM adapter cables** designed with automatic conversion to allow flexible interface combinations (PS/2, USB, Sun and serial) to control all computer types
- Multiplatform support – PC, Mac, Sun and serial
- Extends the distance between computers and switch – up to 40 m (130') for resolutions of 1280 x 1024 @ 75Hz
- OSD tree structure makes finding and managing computers easy
- Conveniently located station and port selectors with LED displays to quickly switch to target computers
- Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Extra console port – manage computers in the LCD KVM switch from an external console (monitor, PS/2 keyboard, and PS/2 mouse)
- Supports external PS/2 mouse
- Dual Rail – LCD monitor slides independently of the keyboard/touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock – enables the console drawer to remain securely locked away in position when not in use
- Dedicated Hotkey Mode and OSD Invocation Keys reduce the number of keystrokes and provide quick access to these functions
- Daisy-chain up to 31 additional KVM switches to control up to 512 computers***
- Auto Scan Mode enables continuous monitoring of user-selected computers
- Two-level password security – Administrator and up for four Users; only authorized users view and control the computers; separate profiles for each
- LCD power button helps save energy and prolong display's life
- PS/2, USB, and Serial keyboard and mouse emulation – computers boot even when the console focus is elsewhere
- Firmware upgradable

*Please refer to www.aten.com for more details.
**Please see page 7 for more details.
***Compatible KVM switches: KH1508, KH1516, KH0116, CS1708A, CS1716A ACS1208A, ACS1216A

Specifications

Function		KL1508	KL1516
Computer Connections	Direct	8	16
	Max.	256 (via Daisy-chain)	512 (via Daisy-chain)
Port Selection		OSD, Hotkey, Pushbutton	
Connectors	External Console Ports	Keyboard	1 x PS/2 (F)	
		Video	1 x HDB-15 (F)	
		Mouse	1 x PS/2 (F)	
	KVM Ports	8 x RJ-45 (F)	16 x RJ-45 (F)
	Daisy-Chain Ports	1 x DB-25 (M)	
	F/W Upgrade	1 x RJ-11 (F)	
	Power	1 x 3-prong AC Socket	
	External Mouse	1 x PS/2 (F)	
Switches		Reset, Port Selection, Station Selection, Power, F/W Upgrade, LCD Power, LCD Adjustment	
LEDs		On Line, Station ID, Port ID, Power, Num Lock, Caps Lock, Scroll Lock, LCD Power	
Emulation	Keyboard/Mouse	PS/2 ; USB(PC, Mac, Sun) ; Serial	
Video Resolution	17" LCD	1280 x 1024@75Hz	
	19" LCD	1280 x 1024@75Hz	
Scan Interval		1–255 Seconds	
I/P Rating		100–240V AC; 50/60 Hz; 1A	
Power Consumption	17" LCD	120V/ 28W; 230V/ 28W	
	19" LCD	120V/ 30W; 230V/ 30W	
Environment	Operating Temp.	0–40°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	17" LCD	17.30 kg	
		19" LCD	18.50 kg	
	Dimensions (L x W x H)	17" LCD	70.90 x 48.20 x 4.40 cm (19"/1U)	
		19" LCD	76.00 x 48.20 x 4.40 cm (19"/1U)	

Product specifications and appearance are subject to change without notice.

Setup

KL1516

External Console

Cat 5e Cable
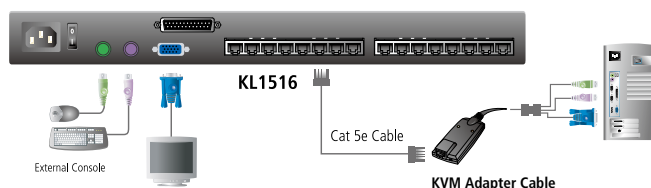
KVM Adapter Cable

See page 7 for available KVM Adapter Cables

KVM Adapter Cables**

KVM Adapter Cables are necessary in KL1508/KL1516 installations.

Connect to systems with PS/2 ports	KA9520
Connect to systems with USB ports	KA9570
Connect to Sun Legacy systems (with 13W3 port)	KA9130
Connect to all systems with USB ports(PC/Mac/Sun)	KA9170
Connect to Serial based devices	KA9140

Dual Rail LCD KVM Switches

KL9108/KL9116

8/16-Port
Dual Rail LCD KVM Switches
17" LCD Console + KVM
Switch with KVM over IP

- Super A-Grade TFT LCD Panel
- Zero Dead Pixel Guarantee *

Shared Access / 2 Local Users	Simultaneous Access / 1 Local User / 1 Remote IP User	2nd Console / PS/2
Computers / SPHD / PS/2	OS Support / Win, Linux, Unix, FreeBSD	Expansion / Cascade
IP Ready / TCP/IP	External Mouse / PS/2	PON Available
NEW OS Support / Vista	GUI	

Features

- Integrated KVM console with 17" LCD monitor in a Dual Rail housing
- Space-saving technology with dual bus function support – 1 remote console (one bus) and two local consoles (one bus) control up to 8 or 16 computers
- Dual-bus – one local and one remote user can simultaneously control separate ports
- Remotely access computers via the LAN, WAN, or Internet – control your installation when and where you want
- Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Extra console port – manage computers in the LCD KVM switch from an external console (monitor, PS/2 keyboard, and PS/2 mouse)
- Supports external PS/2 mouse
- Dual Rail – LCD monitor slides independently of the keyboard/touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock – enables the console drawer to remain securely locked away in position when not in use
- Supports dedicated OSD and OSD Toolbar invocation keys
- Internet browser access, Windows Client and Java Client provided, Java Client works with all operating systems
- Graphical OSD and graphical toolbars for convenient, user-friendly operation
- Up to 64 user accounts – up to 32 concurrent remote logins
- Panel Array Mode – view all 8 or 16 ports at the same time
- Message board feature allows logged in users to communicate with each other and allows a remote user to take exclusive control of the KVM functions
- Windows-based Log Server
- Remote power control for attached Power Over the NET™ devices
- Three-level login security – Administrator, User, and Select
- LCD power button helps save energy and prolong display's life
- Advanced security features include password protection and advanced encryption technologies – 1024-bit RSA, 256-bit AES, 56-bit DES, and 128-bit SSL
- RADIUS server support
- Ports can be set to Exclusive, Occupy and Share
- Network Interfaces: TCP/IP, HTTP, HTTPS, UDP, RADIUS, DHCP, SSL, ARP, DNS, 10Base-T/100Base- TX, auto sense, Ping
- Flash firmware upgradable over network connection

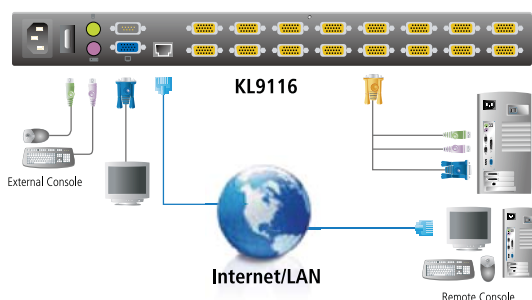* Please refer to www.aten.com for more details.
** Compatible KVM Switches: CS9134, CS9138, CS88A

Specifications

Function		KL9108	KL9116
Computer Connections	Direct	8	16
	Max.	64 (via Cascade)**	128 (via Cascade)**
Console Connections	Local	1	
	Remote	1	
Port Selection		OSD, Hotkey, Pushbutton	
Connectors	External Console Ports — Keyboard	1 x PS/2 (F)	
	External Console Ports — Video	1 x HDB-15 (F)	
	External Console Ports — Mouse	1 x PS/2 (F)	
	KVM Ports	8 x SPHD-15 (F)	16 x SPHD-15 (F)
	Power	1 x 3-prong AC Socket	
	External Mouse	1 x PS/2 (F)	
	LAN	1 x RJ-45 (F)	
	PON	1 x DB-9 (M)	
Switches		Reset, Port Selection, Power, LCD Power, LCD Adjustment	
LEDs		On Line, Selected, Power, Num Lock, Caps Lock, Scroll Lock, Link, 10 / 100 Mbps	
Emulation	Keyboard/Mouse	PS/2	
Video Resolution	17" LCD	1280 x 1024@75Hz; DDC2B	
	Remote	1600 x 1200@60Hz; DDC2B	
Scan Interval		1–255 Seconds	
I/P Rating		100–240V AC; 50/60 Hz; 1A	
Power Consumption		120V/31W; 230V/39W	
Environment	Operating Temp.	0–40°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Housing	Metal	
	Weight	17.10 kg	17.30 kg
	Dimensions (L x W x H)	70.50 x 48.20 x 4.40 cm(19"/1U)	

Product specifications and appearance are subject to change without notice.

Setup

KL9116

External Console

Internet/LAN

Remote Console

■ Remote Access   ■ Graphical User Interface

KL3116

16-Port Dual Rail LCD KVMP™ Switch

- Super A-Grade TFT LCD Panel
- Zero Dead Pixel Guarantee *

Shared Access	2nd Console	Computers
2 Local Users	SPHD USB	SPHD PS/2, USB

OS Support	Expansion	USB Peripherals
Win, Mac, Linux, Unix, Sun, FreeBSD	Daisy-Chain	1 Port

External Mouse	NEW OS Support
PS/2	Vista

Features

- Integrated KVM console with 17″ LCD monitor in a Dual Rail housing
- Space-saving technology – up to two consoles (one bus) control up to 16 computers
- Dual Interface – Supports computers and KVM switches with PS/2 or USB keyboards and mice
- USB peripheral support for attached computers**
- OSD tree structure makes finding and managing computers easy
- Conveniently located station and port selectors with LED displays to quickly switch to target computers
- Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Extra console port – manage computers in the LCD KVM switch from an external console (monitor, USB keyboard, and USB mouse)
- Supports external PS/2 mouse
- Dual Rail – LCD monitor slides independently of the keyboard/ touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock – enables the console drawer to remain securely locked away in position when not in use
- Dedicated Hotkey Mode and OSD Invocation Keys reduce the number of keystrokes and provide quick access to these functions
- Daisy-chain up to 31 additional KVM switches*** to control up to 512 computers
- Auto Scan Mode enables continuous monitoring of user-selected computers
- Broadcast support – commands from the keyboard can be broadcast to all available computers on the installation
- Two-level password security – Administrator and up for four Users; only authorized users view and control the computers; separate profiles for each
- LCD power button helps save energy and prolong display's life
- DDC emulation – video settings of each computer are automatically adjusted for optimal output to the monitor
- Firmware upgradable

*Please refer to www.aten.com for more details.

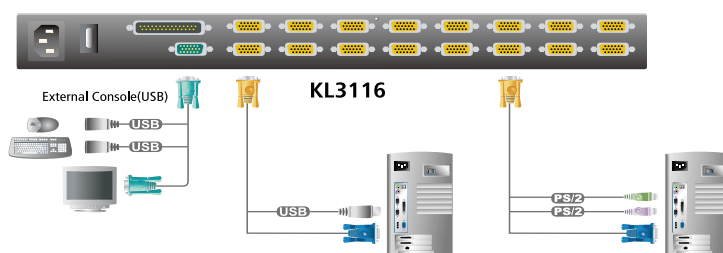**Supports USB peripherals for computers connected to the local station

*** Compatible KVM switches: KH1508, KH1516, KH0116, CS1708A, CS1716A, ACS1208A, ACS1216A

Specifications

Function		KL3116
Computer Connections	Direct	16
	Max.	512 (via Daisy-chain)
Port Selection		OSD, Hotkey, Pushbutton
Connectors	External Console Ports	1 x SPHD-15 (M)
	KVM Ports	16 x SPHD-15 (F)
	Daisy-Chain Ports	1 x DB-25 (M)
	F/W Upgrade	1 x RJ-11 (F)
	Power	1 x 3-prong AC Socket
	USB Hub Port	1 x USB (F)
	External Mouse	1 x PS/2 (F)
Switches		Reset, Port Selection, Station Selection, Power, F/W Upgrade, LCD Adjustment
LEDs		On Line, Station ID, Port ID, Power, Num Lock, Caps Lock, Scroll Lock, LCD Power
Emulation	Keyboard / Mouse	PS/2; USB
Video Resolution		1280 x 1024@75Hz ; DDC2B
Scan Interval		1–255 Seconds
I/P Rating		100–240VAC, 50/60Hz; 1A
Power Consumption		120V / 35.2W; 230V / 41.8W
Environment	Operating Temp.	0–40 °C
	Storage Temp.	-20–60 °C
	Humidity	0–80% RH, Non-condensing
Physical Properties	Housing	Metal
	Weight	17.50 Kg
	Dimensions (L x W x H)	70.50 x 48.20 x 4.40 cm (19″ /1U)

Product specifications and appearance are subject to change without notice.

Setup

KL3116

External Console(USB)

USB Peripheral Support

Station and Port Selection Switches

Dual Interface-supports computers with PS/2 or USB keyboards and mice

Custom SPHD connector for extra USB Console

KL1116

16-Port
Dual Rail LCD KVM Switch

GOOD DESIGN PRODUCT

TAIWAN EXCELLENCE 2006

• Super A-Grade TFT LCD Panel
• Zero Dead Pixel Guarantee *

Shared Access	2nd Console	Computers
2 Local Users	PS/2	SPHD PS/2
OS Support	Expansion	NEW OS Support
Win, Linux, Unix, FreeBSD	Daisy-Chain	Vista

Features

- Integrated KVM console with 17" LCD monitor in a Dual Rail housing
- Space-saving technology – up to two consoles (one bus) control up to 16 computers
- Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Extra console port – manage computers in the LCD KVM switch from an external console (monitor, PS/2 keyboard, and PS/2 mouse)
- Dual Rail – LCD monitor slides independently of the keyboard/touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- Console lock – enables the console drawer to remain securely locked away in position when not in use
- Dedicated Hotkey Mode and OSD Invocation Keys reduce the number of keystrokes and provide quick access to these functions
- Daisy-chain up to 31 additional KVM switches** to control up to 512 computers
- Auto Scan Mode enables continuous monitoring of user-selected computers
- Broadcast support – commands from the keyboard can be broadcast to all available computers on the installation
- Two-level password security – Administrator and up for four Users; only authorized users view and control the computers; separate profiles for each
- Port selection via Pushbutton, Hotkey and OSD
- DDC emulation – video settings of each computer are automatically adjusted for optimal output to the monitor
- Hot pluggable – add or remove computers without having to power down the switch
- Firmware upgradable

*Please refer to www.aten.com for more details.
** Compatible KVM switches: KH0116, ACS1208A, ACS1216A

Specifications

Function		KL1116
Computer Connec	Direct	16
	Max.	512 (via Daisy-chain)
Port Selection		OSD, Hotkey, Pushbutton
Connectors	External Console Ports — Keyboard	1 x PS/2 (F)
	External Console Ports — Video	1 x HDB-15 (F)
	External Console Ports — Mouse	1 x PS/2 (F)
	KVM Ports	16 x SPHD-15 (F)
	Daisy-Chain Ports	1 x DB-25 (M)
	F/W Upgrade	1 x RJ-11 (F)
	Power	1 x 3-prong AC Socket
Switches		Reset, Port Selection, Power, F/W Upgrade, LCD Adjustment
LEDs		On Line, Selected, Power, Num Lock, Caps Lock, Scroll Lock
Emulation	Keyboard/ Mouse	PS/2
Video Resolution		1280 x 1024@ 75Hz; DDC2B
Scan Interval		1–255 Seconds
I/P Rating		100–240VAC, 50/60Hz; 1A
Power Consumption		120V/24W; 230V/24W
Environment	Operating Temp.	0–40 °C
	Storage Temp.	-20–60 °C
	Humidity	0–80% RH, Non-condensing
Physical Properties	Housing	Metal
	Weight	17.10 kg
	Dimensions (L x W x H)	68.00 x 48.20 x 4.40 cm (19"/1U)

Product specifications and appearance are subject to change without notice.

Setup

KL1116
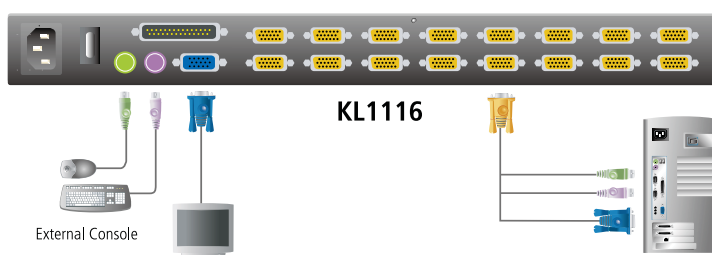
External Console

■ Port Selection Switches

■ Custom Connector

■ External PS/2 Console

■ Dedicated Invocation Keys